

WHAT IS CLAIMED IS:

1. A print ink for a plastic film, the print ink comprising:
5 an antistatic agent added therein.

2. A print ink for a plastic film according to claim 1, wherein
the plastic film is transparent or semi-transparent, and the print
ink, which is antistatic, is a gravure ink for backing up.

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3. A print ink according to claim 1, further comprising:
a main component of a vehicle binder, the main component
being a complex composition of two or more types of polyurethane
resins.

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4. A print ink for a plastic film according to claim 3, wherein
said polyurethane resin is print ink comprising a mixed composition
of a water dispersion type of high Tg polymer and a water dispersion
type of low Tg polymer.

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5. A print ink for a plastic film according to claim 4, wherein
a polymeric mixed composition of said water dispersion type of
high Tg polymer and said water dispersion type of low Tg polymer,
further comprises:

25 an ultra-high molecular weight polyvinyl pyrrolidone added

therein as a stabilizer.

6. A print ink for a plastic film according to claim 1, wherein said antistatic agent is added to an aqueous mixed solution of
5 a complex polyurethane resin and polyvinyl pyrrolidone.

7. A plastic ink according to claim 6, wherein said antistatic agent is a mixed aqueous solution of a alkyldimethyl betaine acetate and an electrolytic metallic salt.

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8. A plastic film and print ink combination, comprising:
a transparent or semi-transparent plastic film printed material; and

an aqueous antistatic print ink, said plastic film printed
15 material being backed up by said aqueous antistatic print ink.

9. An print ink according to claim 1, wherein a resin component of said vehicle binder is ester-based polyurethane resin capable of being dissolved in an organic solvent.

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10. A plastic ink for a plastic film according to claim 9, wherein said ester-based polyurethane resin is a mixed composition of a high Tg polymer and a low Tg polymer each based on an organic solvent.

25 11. A print ink for a plastic film according to claim 10, wherein

an antistatic agent including said ester-based polyurethane resin is added to an organic solvent solution for the ester-based polyurethane.

5 12. A print ink for a plastic film according to claim 11, wherein said antistatic agent is a mixed composition of fatty acid dimethylethyl ammonium ethosulfate and polyoxyethylene alkyl ether.

10 13. A transparent or semi-transparent plastic film printed material backed up with the antistatic print ink based on an organic solvent.

14. A print ink and plastic film combination, comprising:
15 a plastic film; and
a print ink with an antistatic agent added therein.

15. A print ink and plastic film combination according to claim 14, wherein the plastic film is transparent or semi-transparent,
20 and the print ink, which is antistatic, is a gravure ink for backing up.

16. A print ink and plastic film combination according to claim 15, further comprising:
25 a main component of a vehicle binder, the main component

being a complex composition of two or more types of polyurethane resins.

17. A print ink and plastic film combination according to claim
5 16, wherein said polyurethane resin is print ink comprising a mixed composition of a water dispersion type of high Tg polymer and a water dispersion type of low Tg polymer.

18. A print ink and plastic film combination according to claim
10 16, wherein a polymeric mixed composition of said water dispersion type of high Tg polymer and said water dispersion type of low Tg polymer, further comprises:

an ultra-high molecular weight polyvinyl pyrrolidone added therein as a stabilizer.

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19. A print ink and plastic film combination according to claim
14, wherein said antistatic agent is added to an aqueous mixed solution of a complex polyurethane resin and polyvinyl pyrrolidone.

20 20. A print ink and plastic film combination according to claim
19, wherein said antistatic agent is a mixed aqueous solution of an alkyldimethyl betaine acetate and an electrolytic metallic salt.

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